

STIC Search Report

STIC Database Tracking Number: 120997

TO: Jordan Schwartz

Location: JEF-3C09

Art Unit: 2873 May 6, 2004

Case Serial Number: 09/621,223

From: Jeff Harrison

Location: STIC-EIC2800

JEF-4B68

Phone: 22511

Email: harrison, jeff

Search Notes

Examiner Schwartz,

Re: optical lens coating

Attached are edited search results.

I still did not find better dates for web pages or product start-up.

But see the attached, especially the tagged items such as the Aurochim patent.

If this is not good enough, let me know, as I could dig more.

Based on this, if you have questions or would like a refocused search, please contact me or Darcy Bates (272-2540).

Thanks,
Jeff Harrison

Team Leader, STIC-EIC2800

JEF-4B68, 571-272-2511



PALM INTRANET

Day: Tuesday Date: 5/4/2004 Time: 17:07:25

Inventor Information for 09/621223

Inventor Name AYOUB, ABBY	City NORTH BERGEN	State/Count NEW JERSE	
Appin Info Contents	Petition Info Atty/Agent Info	Continuity Data	Foreign Data
Search Another: App		or Patent#	Search
PCT/	Search or P	G PUBS #	Search
Attorney Bar Code	Docket #	Search	

To go back use Back button on your browser toolbar.

Back to PALM | ASSIGNMENT | OASIS | Home page

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FILE 'HCAPLUS' ENTERED AT 14:45:01 ON 04 MAY 2004
 L1
            __1_SEA-ABB=ON PLU=ON AUROLENS OR AUROCHIM OR (AUROCHIM? OR
                AUROLENS##)/PA,CS
                 D ALL
                E VALMASSOI/AU, IN
L2
              1 SEA ABB=ON PLU=ON ("VALMASSOI OSVALDO"/AU OR "VALMASSOI
                OSVALDO"/IN) NOT L1
                D ALL
                E DISCOUNT OPTICS/PA,CS
                E OPPER/AU, IN
     FILE 'INSPEC' ENTERED AT 14:47:20 ON 04 MAY 2004
L3
              0 SEA ABB=ON PLU=ON AUROLENS OR AUROCHIM OR (AUROCHIM? OR
                AUROLENS##)/CS
                E DISCOUNT OPTICS/CS'
                E EXPLOSIVE EYE/CS, PA
     FILE-'DPCI' ENTERED AT 15:16:19 ON 04 MAY 2004
             19 SEA ABB=ON PLU=ON (US3839956 OR JP1601309 OR JP2025360 OR
:L4
                JP59031185 OR DE33228345 OR FR2531909 OR IT1159494 OR US4169169
                 OR GB2248800 OR EP518186)/PN.D
L5
              1 SEA ABB=ON PLU=ON (US5162291 OR DE69214015 OR JP6255139 OR
                JP06255139)/PN
              3 SEA ABB=ON PLU=ON (US5162291 OR DE69214015 OR JP6255139 OR
                JP06255139)/PN.D
L7
             22 SEA ABB=ON PLU=ON L4 OR L6
L8
               SEL PLU=ON L7 1- PRN :
     FILE "WPIX, HCAPLUS" ENTERED AT 15:18:44 ON 04 MAY 2004
             43 SEA ABB=ON PLU=ON L8
1.9
L10
              4 SEA ABB=ON PLU=ON L9 AND (EDGE OR PERIPHER##### OR RIM OR
               PERIMETER###)
               D TI 1-4
               D MAX 1-4
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     FILE 'EUROPATFULL, PCTFULL' ENTERED AT 15:23:32 ON 04 MAY 2004
              4 SEA ABB=ON PLU=ON L8
L11
               D TI 1-4
               D BIB AB 1-4
     FILE WPIX, HCAPLUS, INPADOC' ENTERED AT 15:31:36 ON 04 MAY 2004
L14
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               D TI
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               D MAX 2
    FILE 'WPIX, HCAPLUS, INPADOC' ENTERED AT 15:33:29 ON 04 MAY 2004
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2 SEA ABB=ON PLU=ON US6079827/PN

L15

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SYSTEM:OS - DIALOG OneSearch
 File 126:TRADEMARKSCAN (R) -U.K. 2004/May W1
 File 127: TRADEMARKSCAN(R) - CANADA 2004/Apr 28
 File 225:DIALOG(R):Domain Names 1997 - Mar. 2004 (c) 2003 Dialog & SnapNames.
 File 226:TRADEMARKSCAN(R)-US Fed OG 040427/AP 040429
 File 227:TRADEMARKSCAN(R)- Community Tmks 2004/May W1
 File 228:TRADEMARKSCAN(R)-Spain 2004/May W1
 File 246:TRADEMARKSCAN(R)-U.S. State 2004/Apr 25
 File 657:TRADEMARKSCAN(R)-France 2004/Apr W5
 File 658:TRADEMARKSCAN(R)-Benelux 2004/May W1
 File 659:TRADEMARKSCAN(R)-Denmark 2004/May W1
 File 661:TRADEMARKSCAN(R)-Switzerland 2004/May W1
 File 662:TRADEMARKSCAN(R)-Austria 2004/Apr W6
 File 663:TRADEMARKSCAN(R)-Monaco 2004/May W1
 File 669:TRADEMARKSCAN(R)-Japan 2004/Mar
 File 671:TRADEMARKSCAN(R)-Intl Register 2004/Apr W4
 File 672:TRADEMARKSCAN(R)-Germany 2004/May W1
 File 673:TRADEMARKSCAN(R)-Italy 2004/Apr W5
File 675:TRADEMARKSCAN(R)-Sweden 2004/May W1
File 677:TRADEMARKSCAN(R)-Liechtenstein 2004/May W1
File 678:TRADEMARKSCAN(R)-Norway 2004/May W1
File 679:TRADEMARKSCAN(R)-Finland 2003/Sep W2
File 680:TRADEMARKSCAN(R)-Czech Republic 2004/Aug
File 681:TRADEMARKSCAN(R)-Hungary 2004/Jun .
File 682:TRADEMARKSCAN(R)-Poland 2004/Jul
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Set Items Description
S1 3 CHINT(IW) TINT

04may04 13:35:56 User259284 Session D2740.4

SYSTEM: OS - DIALOG OneSearch

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200427

File 345:Inpadoc/Fam.& Legal Stat 1968-2004/UD=200418

File 344:Chinese Patents Abs Aug 1985-2004/Mar

File 371:French Patents 1961-2002/BOPI 200209

File 347: JAPIO Nov 1976-2003/Dec (Updated 040402)

Set	Items	Description
S1	109	TRANSLUCEN???? AND LENS?? AND COAT?????
S2-	. 26	S1 AND (TINT??? OR HUE OR HUE?? OR COLOR????? OR COLOUR????)
S3	13719	(EDGE? ? OR PERIPHER????? OR PERIMET??????) (3N) (COLOR????? OR COAT??????? OF
TINT??	?? OR COL	OUR?????)
S4	0	1AND3
S5	34	S3 AND (EYEGLASS?? OR SUNGLASS??? OR SPECTACLE?? OR (EYE OR SUN) () GLASS???)
. S6	. 34	S5 NOT S2
S7	1	S6 AND TRANSLUC??????
S8	6401	(EDGE? ? OR PERIPHER????? OR PERIMET??????) (3N) LENS??
S9	18	5AND8
S10	18	S9 NOT (S2 OR S7)
S11	419	S1:S8 AND RIM? ?
S12	. 22	S1:S8 AND RIM? ?(4N) (COAT???? OR COLOR?????? OR COLOUR????? OR TINT?????)
S13	22	S12 NOT (S10 OR S2 OR S7)





Academic Search Premier; Business Source Corporate; Regional Business News; Pre-Database:CINAHL; American Humanities Index; Knight Ridder Collection; Communication & Mass Media Complete

Database Help

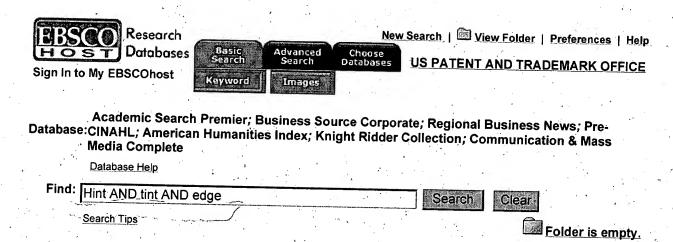
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Search Tips		Folder is empty.

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You may want to try your search again after following one or more of these tips:

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No results were found for your search query.

You may want to try your search again after following one or more of these tips:

- Check the spelling of your search terms. Correct any misspellings and re-run the search.
- To broaden your search, use the Boolean operator OR. For example, type: Siamese OR cats.

See hints for suggestions. Refine Search Results Limit your results: Limiters | Expanders Full Text Special limiters for Business Source Corporate References Available Scholarly (Peer Reviewed) Journals Published Date | Month | \mathbb{F} to Month Publication Publication Type None Applied Number of Pages Articles With Images None Applied Special limiters for Regional Business News Published Date | Month | to Month Magazine



Help



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- Reduce the number of terms included in your search.
- Broaden your search by selecting other <u>databases</u>, removing limits, or searching "Citations and Article Text" (see More Search Options.)
- Connect similar terms with the "OR" operator (e.g. military OR pentagon). See Search Tips for more hints.

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- Broaden your search by selecting other databases, removing limits, or searching "Citations and Article Text" (see More Search Options.)
- Connect similar terms with the "OR" operator (e.g. military OR pentagon). See Search Tips for more hints.

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- Broaden your search by selecting other <u>databases</u>, removing limits, or searching "Citations and Article Text" (see More Search Options.)
- Connect similar terms with the "OR" operator (e.g. military OR pentagon). See Search Tips for more hints.

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1996 1997 1998 1999 2000	2001	2002	2003	2004
0 pages 0 pages 0 pages 2 pages	9 pages	7 pages	5 pages	0 pages
But is Aurochim home page. Is not the specific references ited on the IDS of 2/05/04	Feb 01, 2001 Feb 04, 2001 Mar 01, 2001 Mar 31, 2001 Apr 05, 2001 May 16, 2001 Jul 22, 2001 Sep 25, 2001 Dec 03, 2001	* May 28, 2002 * May 31, 2002 Aug 06, 2002 Sep 26, 2002 *	Feb 06, 2003 Feb 12, 2003 Mar 21, 2003 Jun 21, 2003 Jun 24, 2003	

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2/9/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv.

014786241 **Image available**
WPI Acc No: 2002-606947/200265

XRPX Acc No: NO2-480603 Lens for eyeglasses, h

Lens for eyeglasses, has translucent region selectively formed on surface portion of lens and textured with predetermined pattern to imbue the translucent region with light diffusing characteristics

Patent Assignee: EYECITY.COM INC (EYEC-N)

Inventor: FRIEDMAN D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No | Kind Date Applicat No Kind Date Week US 6416178 | B1 20020709 US 2000576918 A 20000523 200265 B

Priority Applications (No Type Date): US 2000576918 A 20000523-Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes. US 6416178 B1 8 G02C-007/10

Abstract (Basic): US 6416178 B1.

NOVELTY - A translucent region (130') is selectively formed on a surface portion of the lens (105'). The translucent region is textured with a predetermined pattern to imbue the region with light diffusing characteristics, with the remaining portion being transparent and colored. An antireflective AR coating (155) is applied to the surface of the lens opposing the translucent region.

USE - For eyeglasses.

ADVANTAGE - Provides multiple textured translucent regions, without altering the effectiveness of the translucent region to reduce glare. Reduces or eliminates blurring that would occur at both distance and near viewing as a result of long period of viewing by enabling user to focus on near objects, without needing accommodation otherwise required if the clear region is plane in nature. Reduces glare and/or increase visual acuity of the eyeglasses.

DESCRIPTION OF DRAWING(S) - The figure shows the cross-section view of the translucent lens.

Lens (105!)

Translucent region (130°) AR coating (155)

1/9/2 (Item_1 from file: 226)-DIALOG(R) File 226: TRADEMARKSCAN(R) -US Fed) (c) 2004 Thomson & Thomson All rts. reserv.

DISCLAIMS: "TINT ON THE EDGE"

--08146759-HINT OF TINT ON THE EDGE

INTL CLASS: 16 (Paper Goods & Printed Matter) STATUS: Registered; Intent to Use - Application USPTO STATUS: Registered - June 24, 2003 GOODS/SERVICES: MARKING PENS FOR USE IN ADDING COLORED TINT TO EYEGLASS LENSES, GLASSES, FRAMES AND GLASS SERIAL NO.: 78-146,759 FILED: July 23, 2002 REG. NO.: 2,729,251 REGISTERED: June 24, 2003 FIRST USE: June 1, 2002 (Intl Class 16)
FIRST COMMERCE: June 1, 2002 (Intl Class 16) PUBLISHED: April 1, 2003
ORIGINAL APPLICANT: DISCOUNT OPTICS, INC. (Florida Corporation), 1200 S. ROGERS CIRCLE, BOCA RATON, FL (Florida), 33487 OWNER AT PUBLICATION: DISCOUNT OPTICS, INC. (Florida Corporation), 1200 S. ROGERS_CIRCLE, BOCA_RATON, FL (Florida), 33487

FILING CORRESPONDENT: NORMAN OPPER, DISCOUNT OPTICS, INC., 1200

S. ROGERS CIRCLE BUILDING #13, BOCA RATON FL 33487

Makerof

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ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
L1
AN
     1999:213151 HCAPLUS
DN
     130:238963
     Entered STN: 05 Apr 1999-
ΕĎ
    -Method-for-surface coloring plastic objects after manufacture comprising
     printing ink transfer and solvent-vapor activation
IN
     Valmassoi, Osvaldo_
PA
     Aurochim Industria S.R.L., Italy/
SO-
    Eur._Pat._Appl., 3 pp.
     CODEN: EPXXDW
\mathsf{D}\mathbf{T}
     Patent
LA
     English .
IC
     ICM B41M001-30.
     ICS B41M005-035
    42-12 (Coatings, Inks, and Related Products)
FAN.CNT 1
     PATENT NO.
                      KIND DATE
                                            APPLICATION NO.
                                                             DATE
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PI EP_903245
                            19990324
                                            EP 1998-116330 19980828
                           19991103
   EP 903245
                      A3
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R:_AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO CUS 5980588 19991109 · A US 1998-149106 19980908 PRAI_IT-1997-PD207 19970918

A method for surface coloring plastic objects after manufacture comprises (1) impregnating a printed paper substrate, whereon pigments of disperse inks. and/or sublimatic inks are deposited within the printing inks, with an aqueous solution of a solvent which activates the print and is capable of activating the plastic surface, (2) covering the plastic surface with the paper substrate and removing the substrate and drying the parts, and (3) introducing the parts into an atmospheric of vapors of a solvent or a mixture of solvents of the pigments, for a time sufficient to fix the pigments to the surface. The solvent or the mixture of solvents has a b.p. about 55-100°. The solvent acts as an agent which etches and/or swells the plastic surface.

First Hit



L1: Entry 1 of 4

File: DWPI

Mar 24, 1999

DERWENT-ACC-NO: 1999-206557

DERWENT-WEEK: 200157

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Surface coloring plastic objects after manufacture

INVENTOR: VALMASSOI, O

PATENT-ASSIGNEE:

ASSIGNEE

CODE

AUROCHIM IND SRL

AURON

PRIORITY-DATA: 1997IT-PD00207 (September 18, 1997)

*	Search Selected	Search ALL	Clear	
PATÉNT-FAMILY:				•
PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 903245 A2	March 24, 1999	E	003	B41M001/30
IT 1294661 B	April 12, 1999		000	B41M000/00
US-5980588-A	November 9, 1999		000	D06P005/02
and the second second			•	•

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 903245A2	August 28, 1998	1998EP-0116330	
IT 1294661B	September 18, 1997	1997IT-PD00207	
US 5980588A	September 8, 1998	1998US-0149106	

INT-CL (IPC): <u>B41 M 0/00</u>; <u>B41 M 1/30</u>; <u>B41 M 5/035</u>; D06 P 5/02

ABSTRACTED-PUB-NO: EP 903245A

BASIC-ABSTRACT:

NOVELTY - Method can be performed cold or below the softening temperature of the plastics, can be applied to complex shapes and is low cost Method consists in impregnating a printed paper substrate with disperse or sublimatic inks dispersed in the printing inks with an aqueous solution of a solvent which activates the print and the surface of the plastic to be treated. The paper substrate covers the parts of the object to transfer the print, the substrate is removed and the parts

are dried and introduced into low boiling point (55-100 deg.C) solvent vapors to activate and fix the pigments.

USE - Method concerns thermal dye-sublimation printing for plastic objects e.g. in the eyewear industry.

ADVANTAGE - Method can be performed cold or below the softening temperature of the plastics, can be applied to complex shapes and is low cost. ABSTRACTED-PUB-NO:

US 5980588A EQUIVALENT-ABSTRACTS:

NOVELTY - Method can be performed cold or below the softening temperature of the plastics, can be applied to complex shapes and is low cost Method consists in impregnating a printed paper substrate with disperse or sublimatic inks dispersed in the printing inks with an aqueous solution of a solvent which activates the print and the surface of the plastic to be treated. The paper substrate covers the parts of the object to transfer the print, the substrate is removed and the parts are dried and introduced into low boiling point (55-100 deg.C) solvent vapors to activate and fix the pigments.

USE - Method concerns thermal dye-sublimation printing for plastic objects e.g. in the eyewear industry.

ADVANTAGE - Method can be performed cold or below the softening temperature of the plastics, can be applied to complex shapes and is low cost.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: SURFACE PLASTIC OBJECT AFTER MANUFACTURE

DERWENT-CLASS: P75

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1999-152229



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) EP 0 903 245 A3

(12)

EUROPEAN PATENT APPLICATION

- (43) Date of publication A2: 24.03.1999 Bulletin 1999/12
- (21) Application number: 98116330.6
- (22) Date of filling: 28.08.1998

- (51) Int. Ci.⁶: **B41M 1/30**, B41M 5/035, B41M 5/04, B41M 7/00, B44C 1/175
- (84) Designated Contracting States:

 AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

 MC NL PT SE

 Designated Extension States:

 AL LT LV MK RO SI
- (30) Priority: 18.09.1997 IT PD970207
- (71) Applicant: Aurochim Industria S.r.I. 32040 Lozzo di Cadre (Belluno) (iT)
- (72) Inventor: Valmassol, Osvaldo 32040 Domegge di Cadore, Belluno (IT)
- (74) Representative:
 Modiano, Guido, Dr.-ing. et al
 Modiano & Associati SpA
 Via Meravigli, 16
 20123 Milano (IT)
- (54) Method for surface coloring plastic objects after manufacture
- (57) A method for surface coloring plastic objects after manufacture. The method consists of a first step for impregnating a printed paper substrate, whereon pigments of the family per se known as 'disperse inks' and/or 'sublimatic inks' are denosited within the printing



EUROPEAN SEARCH REPORT

Application Number EP 98 11 6330

	DOCUMENTS CONSIDERED TO BE RELEVANT	9.2.	
Category	Citation of document with indication, where appropriate, of relevant passages	Relayart to claim	GLASSFIGATION OF THE APPLICATION (IM.CL6)
A	US 3 839 956 A (J.GAYNOR ET AL.) 8 October 1974 (1974-10-08) * claim 1; figures 2,3 * * column 3, line 57 - column 4, line 32 *	1-3	841M1/30 841M5/035 841M5/04 841M7/00 844C1/175
A	GB 2 126 163 A (CUBIC ENGINEERING K.K.) 21 March 1984 (1984-03-21) * claims 1,2,7,8; example 3 * * page 1, line 3 - line 85 * * page 2, line 45 - line 84 *	1-3	
Å	US 4 169 169 A (T.KITABATAKE) 25 September 1979 (1979-09-25) column 1, line 67 - column 2, line 40 * column 4, line 51 = column 5, line 54 * claims 1-9; figures 1-8; example 1 *	1-3	(X
A	GB 2 248 800 A (ESSELTE LETRASET LIMITED) 22 April 1992 (1992-04-22) * claims 1-10; examples 1-3 *	1-3	TEČHNIČAL FIELDS
Α .	EP 0 518 186 A (EASTMAN KODAK COMPANY) 16 December 1992 (1992-12-16) * column 2, line 24 - column 3, line 57 * * claims 1-7; figure 1; example 1 *	1-3	SEARCHED (PALCLE) B41M B44C
			,

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 98 11 6330

This annex lists the patent lately members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on.

The European Patent Office is in no way fiable for these particulars which are merely given for the purpose of information.

09-09-1999

	Patent docume 90 in 8821th re		Publication " data	Patent (amily Publication member(s) date
US	3839956	A	08-10-1974	NONE
ĠB	2126163	A	21-03-1984	JP 1601309 C 18-02-19 JP 2025360 B 01-06-19 JP 59031185 A 20-02-19 DE 3328345 A 23-02-19 FR 2531909 A 24-02-19 IT 1159494 B 25-02-19
US	4169169	A·	25-09-1979	NONE
GB	2248800	A	22-04-1992	NONE
EP	518186	A	16-12-1992	US 5162291 A 10-11-199 DE 69214015 D 31-10-199 DE 69214015 T 17-04-199 JP 6255139 A 13-09-199

10/9/5 (Item 5 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 014350426 WPI Acc No: 2002-171129/200222 Related WPI Acc No: 2003-221125 XRPX Acc No: N02-130193 Applying a colored coating to a lens by applying a hydrophobic coating to at least a portion of its front and back portions, cutting lens and edging, then applying a colored coating to the edge Patent Assignee: AYOUB A (AYOU-I); EXPLOSIVE EYE INT INC (EXPL-N) Inventor: AYOUB-A---Number of Countries: 101 Number of Patents: 009 Patent Family: Patent No Kind Date Applicat No Kind Date Week US 20020008847 Al 20020124 US 2000621223 20000721 200222 US 2001843853 Α· 20010430 A1 20020131 WO 200208820 WO 2001US23025 20010720 200222 AU 200180686 ~A~~ 20020205 AU 200180686 Α 20010720 20021107 WO 2002US13316 A WO 200288829 A1 20020429 200274 US 6505935 B2 20030114 US 2000621223 À 20000721 . 200313 US 2001843853 A . 20010430 EP 1311895 Al. 20030521 EP 2001959097 20010720 Α 200334 WO 2001US23025 A 20010720 BR 200112640 20030624 BR 200112640 A 20010720 200343 WO 2001US23025 A 20010720 KR 2003055247 A 20030702 KR 2003700921 20030121 200377 CN 1455884 A 20031112 CN 2001814627 Á 20010720 200412

Priority Applications (No Type Date): US 2000621223 A 20000721; US 2001843853 A 20010430

Abstract (Basic): US 20020008847 A1

NOVELTY - The method comprises applying a hydrophobic coating to at least a portion of a front and back portion of a lens;

cutting a lens and edging a lens; and then applying the colored coating to at least a portion of the **edge** of the **lens** and removing excess coating. A further step is included where a third coating is applied to at least a second portion of the second surface of the lens.

DETAILED DESCRIPTION - Preferably, the first coating and the third coating are hydrophobic coatings, and the second coating is a colored coating. The second coating is removed from the third coating once the second coating is dry. The second coating is removed from the first coating by applying at least one of the group comprising: acetone, alcohol and no-acetone.

USE - For optical lenses used in eye glasses

ADVANTAGE - Enhances the cosmetic appearance of eyeglasses by reducing the appearance of the white ring along the perimeter of the face of lens when viewed from the front, and by reducing the appearance of the white film on the edge when viewed from the side. Reduces the glare from light entering through the edge of the lens

pp; 10 DwgNo 0/0

Title Terms: APPLY; COLOUR; COATING; LENS; APPLY; HYDROPHOBIC; COATING;

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/13316

ĺ	L. CI	ASSIFICA	ATION OF SUBJECT MATT	¥Æ

IPC(7) US CL

G02C 7/02

US CL : 351/177

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S.: 351/177, 162, 163, 159, 41, 44, 45

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) East Search

	idered to	
UN LEAGUIN		

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
<u>X</u> A	US 6,145,984 A (FARWIG) 14 November 2000 (14.11.2000), Figure 2, column 5, line 3 to column 7, line 2.	i 2-23	
<u>X</u> A	US 6,079,827 A (COLEMAN et al) 27 June 2000 (27.06.2000), abstract, column 6, line 41 to column 8, line 27.	2-23	
*			

ANSWER 1 OF 1 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN 2001-023506 [03] WPIX

AN

DNN N2001-018283

> Color enhancing polarized lens for sunglasses, has trichroic contrast enhancer which provides maximum and minimum light transmissions with respect to CIE illuminant C at maxima and minima, respectively.

DC

IN FARWIG, M J

(MAUI-N) MAUI JIM INC PA

CYC

ΤI

A 20001114 (200103)* PT US 6145984 G02C007-12 US-6145984^AProvisional US 1997-68697P 19971223, US 1998-218886 19981222 ADT PRAI US 1997-68697P 19971223; US 1998-218886 19981222

IC ICM G02C007-12

AB US 6145984AUPAB: 20010116

NOVELTY - A trichroic contrast enhancer provides maximum and minimum light transmissions with respect to CIE illuminant C at maxima and minima. The highest value of maxima in each maximu-transmission band is equal to 80 to 120 percent of average value of three highest maxima. The lowest value of minima in each minimum-transmission band is 75 percent or less of integrated visible-light transmission value of lens.

DETAILED DESCRIPTION - The lens includes a front lens element (2) and a rear lens element (4). Each lens element has a convex surface on one side and a concave surface on the other side. The rear lens element comprised of the trichroic contrast enhancer. The lens elements are adhered together with a polarizing film (3) arranged between the lens elements. The front and rear exterior surfaces of the lens are defined by the convex surface of the front lens element and concave surface of the rear lens element, respectively. Each maxima is located within each of three maximum-transmission wavelength bands defined by respective spectral ranges of 610-650 nm, 480-nm, and 420-460 nm. Each maxima has a light transmission value at least 125 percent of integrated visible-light transmission value of the trichroic contrast enhancer. Each minima is located within each of two minimum-transmission wavelength bands defined by spectral ranges located chromatically between the spectral ranges defining the maxima.

USE - For sunglasses.

ADVANTAGE - Offers a polarized lens with excellent glare reduction. Enhanced color saturation, chromatic contrast, luminous contrast, and acuity of the sunglasses. Provides an apparent neutral tint to the sunglasses. Improves the color fidelity and visibility or color objects partially obscured by fog or haze, and provides complete ultraviolet protection.

DESCRIPTION OF DRAWING(S) - The figure shows the cross-sectional view of the lens depicting the polarizing film arranged between two curved lens elements.

Front lens element 2 Polarizing film 3 Rear lens element 4

Dwg.1/4

FS GMPI FA AB; GI answer 1 of 2 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN

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2000-303151 [26]
                          WPIX :
 DNN
      N2000-226549
                          DNC C2000-091866
 TI
      Edging of complementary pair of ophthalmic lenses for laminated
      electrochromic lens includes stacking the lenses and simultaneously edging
      the lenses while they are stacked.
 DC:
      A32 A89 P61 P81
 IN
      COLEMAN, C R; SMITH, B A R; GREGORY, C C
      (PITT) PPG IND OHIO INC
 PA
CYC
      20
      WO 2000016944
                     A1 20000330 (200026) * EN
                                                   26
         RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE 6079827 A 20000627 (200036) G02C007-02
     US 6079827
      EP-1169160
                      A1 20020109 (200205)
                                                         B24B009-14
          R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
     WO 2000016944 A1 WO 1999-US21546 19990915; US 6079827 A US 1998-157485
ADT
      19980921; EP 1169160 A1 EP 1999-954629 19990915, WO 1999-US21546 19990915
     EP 1169160 A1 Based on WO 2000016944
PRAI US 1998-157485
                            19980921
IC
      ICM B24B009-14; G02C007-02
      ICS B29D011-00
AΒ
     WO 200016944 A UPAB: 20000531
     NOVELTY - Edging of a complementary pair of ophthalmic lenses includes
      stacking the lenses so as place their mating surfaces in contact with each
     other and simultaneously edging the stacked lenses.
           DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:
           (A) a method of simultaneously edging lenses with complementary
     surfaces by coupling and then simultaneously edging the lenses; and
           (B) an edged laminated lens; and
           (C) a laminated electrochromic lens comprising a first edged
     ophthalmic lens with electroconductive metal oxide and electrochromic
     films, a second edged ophthalmic lens with an electroconductive metal
     oxide film and optionally a complementary electrochromic film and an ion
     conducting polymer placed between the lenses.
          USE - For edging a complementary pair of ophthalmic lenses used to
     prepare a laminated electrochromic lens.
          ADVANTAGE - The method permits simultaneous edging and so results in
     highly accurate positioning and shaping of surface features on the peripheral edge surfaces of a complementary pair of ophthalmic lenses.
          DESCRIPTION OF DRAWING(S) - The figure shows a cross-sectional view
     of a laminated lens showing the peripheral nub at the interface of the
     lenses forming the laminate.
     Front lens 1
          Second or rear lens 2
     Bonding agent 7
          Peripheral edge surface of laminated lens 8
     Dwg.0/2
TECH WO 200016944 A1UPTX: 20000531
     TECHNOLOGY FOCUS - MECHANICAL ENGINEERING - Preferred Step: The stacking
     or coupling step is carried out by using a temporary bonding agent.
     Preferred Lens: One of the lenses has a thickness of less than 2 mm.
```

TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Agent: The temporary bonding agent is water.

ANSWER 1 OF 1 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN L12 2001-023506 [03] WPIX AN

DNN

N2001-018283

Color enhancing polarized lens for súnglasses, has trichroic contrast enhancer which provides maximum and minimum light transmissions with respect to CIE illuminant C at maxima and minima, respectively.

DC P81

IN FARWIG, M J (MAUI-N) MAUI JIM INC PΑ

CYC

US 6145984 A 20001114 (200103) * * ADT US 6145984 A Provisional US 1997-68697P 19971223, US 1998-218886 19981222 PRAI US 1997-68697P 19971223; US 1998-218886 19981222

IC ICM G02C007-12

AB US 6145984AUPAB: 20010116

NOVELTY - A trichroic contrast enhancer provides maximum and minimum light transmissions with respect to CIE illuminant C at maxima and minima. The highest value of maxima in each maximu-transmission band is equal to 80 to 120 percent of average value of three highest maxima. The lowest value of minima in each minimum-transmission band is 75 percent or less of integrated visible-light transmission value of lens.

DETAILED DESCRIPTION - The lens includes a front lens element (2) and a rear lens element (4). Each lens element has a convex surface on one side and a concave surface on the other side. The rear lens element comprised of the trichroic contrast enhancer. The lens elements are adhered together with a polarizing film (3) arranged between the lens elements. The front and rear exterior surfaces of the lens are defined by the convex surface of the front lens element and concave surface of the rear lens element, respectively. Each maxima is located within each of three maximum-transmission wavelength bands defined by respective spectral ranges of 610-650 nm, 480-nm, and 420-460 nm. Each maxima has a light transmission value at least 125 percent of integrated visible-light. transmission value of the trichroic contrast enhancer. Each minima is located within each of two minimum-transmission wavelength bands defined by spectral ranges located chromatically between the spectral ranges defining the maxima.

USE. - For sunglasses.

ADVANTAGE - Offers a polarized lens with excellent glare reduction. Enhanced color saturation, chromatic contrast, luminous contrast, and acuity of the sunglasses. Provides an apparent neutral tint to the sunglasses. Improves the color fidelity and visibility or color objects partially obscured by fog or haze, and provides complete ultraviolet protection.

DESCRIPTION OF DRAWING(S) - The figure shows the cross-sectional view, of the lens depicting the polarizing film arranged between two curved lens elements.

Front lens element 2 Polarizing film 3 Rear lens element 4

Dwg.1/4

FS GMPI

FA AB; GI

(Item 6 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 013734007 WPI Acc No: 2001-218237/200122 Related WPI Acc No: 1998-428109 XRAM Acc No: C01-065102 XRPX Acc No: N01-155592 Transparent or translucent coated article such as spectacle lenses, comprises an optical substrate, and one or more layers of anti-reflection material coated on at least a portion of the optical substrate. Patent Assignee: HAALAND P D (HAAL-I); MICKOY B V (MICK-I); MCKOY B V (MCKO-I) Inventor: HAALAND P D; MCKOY B V; MICKOY B V Number of Countries: 095 Number of Patents: 007 Patent Family: Patent No Kind Date Applicat No Kind Date WO 200109647 20010208 A:1 WO 2000US20410 A 20000727 200122 AU 200066097 Α 20010219 AU 200066097 Α 20000727 ;200129 BR 200013299 Α 20020402 BR 200013299 ·A 20000727 200231 WO 2000US20410 Α 20000727 EP 1203244 A1 20020508 EP 2000953693 Α 20000727 200238 WO 2000US20410 20000727 KR 2002044551 20020615 KR 2002701344 Α 20020130 200279 CN 1372646 20021002 CN 2000812343 ٠A 20000727 200307 JP 2003506735 W 20030218 WO 2000US20410 Α 20000727 200315

Priority Applications (No Type Date): US 99364748 A 19990730 Abstract (Basic): WO 200109647 A1

NOVELTY - Transparent or translucent coated article, comprising an optical substrate, and one or more layers of anti-reflection material coated on at least a portion of the optical substrate.

JP 2001514604

20000727

DETAILED DESCRIPTION - A transparent or translucent coated article (A) having a perceived reflectance F of formula (I), comprising:

- (a) an optical substrate; and
- (b) one or more layers of anti-reflection material **coated** on at least a portion of the optical substrate, the one or more layers of anti-reflection material having a thickness such that the perceived reflectance of the **coated** article is less than or equal- to 1.25Fmin.

F=integralintegral S (lambda,theta) R (lambda,theta) dlambda dtheta lambda=wavelength;

.theta=incident angle;

S(lambda, theta) = human sensitivity function as a function of the wavelength and the incident angle; and

R(lambda, theta) = an average of p- and s-polarized reflectances; Fmin=a minimized perceived reflectance of the coated article. INDEPENDENT CLAIMS are also included for:

- (1) a transparent or translucent coated article (A) comprising (a) and (b), where one or more layers having a thickness selected to maintain chromaticity coordinates contained with a volume element defined by a circle of radius 0.1 centered at (1/3, 1/3) in 1931 CIE color space; and
- (2) a method of making transparent or translucent coated article (A) by initiating deposition of one or more layers of anti-reflection material on substrate; and terminating deposition when one or more layers reach a desired thickness.

USE - Improved coating for transmission of light through optical materials, such as spectacle lenses.

ADVANTAGE - The coating reduces reflection of stray light that leads to glare from optical materials, and also controls the perceived color of light reflected from the surface of optical

materials.

pp; 41 DwgNo 0/14

Technology Focus:

TECHNOLOGY FOCUS - POLYMERS - Preferred Components: The optical substrate is an ophthalmic lens coated with the anti-reflection material on at least a portion of one or both lens surfaces and/or its edge. Preferably the optical substrate is a window, especially a television screen or computer monitor. At least one layer of anti-reflection material comprises a fluorocarbon film of a plasma deposition product of a perfluorinated organic compound. The perfluorinated organic compound is a perfluoroaliphatic or perfluorocycloaliphatic compound. Preferably the perfluorinated organic compound is perfluorocyclobutane, hexafluoroethane, tetrafluoroethylene, perfluoropropene, and mixtures, especially comprises polytetrafluoroethylene. At least one layer of anti-reflection material comprises an organic or organosilicon film, preferably comprises a plasma enhanced chemical vapor deposition product of one or more precursors selected from Si(CH3)4, HSi (CH3)3, thiophene, furan, benzene, Ti (OC2H5)4, Ti (OC3H7)4, Ti (N (C2H5)2)4, and perfluorinated organic compounds. Each layer of anti-reflection material has a physical thickness greater than about 5nm and less than about 1 micron.

Preferred Article: Article further comprising an optically thin metal layer deposited on the optical substrate and/or on a layer of anti-reflection material, and a layer of hydrophobic material. The article having a color, when viewed at a specified angle or angles, under a specified illumination, that is perceived to lie within a specified volume element of color space defined by the color's CIE chromaticity coordinates. The illumination is selected from normal or spectrally filtered daylight, tungsten lamps, fluorescent lamps, and arc lamps. The volume element is defined by a circle of radius 0.1 centered at (1/3, 1/3) in 1931.

(Item 4 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 014037918 **Image available** WPI Acc No: 2001-522131/200157 XRAM Acc No: C01-155812 XRPX Acc No: N01-386976 Hydrophilic coating material, used for surgical implants, comprises hydrophobic (meth)acrylic polymer and hydrophilic polymer Patent Assignee: ALCON UNIVERSAL LTD (ALCO-N); ALCON INC (ALCO-N); LEBOEUF A R (LEBO-I); SHEETS J W (SHEE-I) Inventor: LEBOEUF A R; SHEETS J W Number of Countries: 032 Number of Patents: 015 Patent Family: Patent No Kind Date Applicat No Kind Date WO 200151103 A1 20010719 WO 2000US33102 20001206 Α 200157 AU_200125758 .A 20010724 AU 200125758 Α 20001206 200166 US 6406739 ^L В1 20020618 US 2000175779 20000112 200244 US 2000730969 À 20001206 EP. 1246652 EP 2000989222 20021009 Α 20001206 200267 WO 2000US33102 Α 20001206 US 20020149741 A1 20021017 US 2000175779. P 20000112 200270 US 2000730969 20001206 Α US 2002109809 Α. 20020329 20020909, NO 200203343 WO 2000US33102 20001206 200273 NO 20023343 20020711 BR 200016998 20021015 BR 200016998 20001206 200276 WO' 2000US33102 20001206 20020725 KR 2002062357 Α 'KR 2002707899 20020620 200308 NZ 520117 20030228 NZ 520117 20001206 200323 WO 2000US33102 20001206

Priority Applications (No Type Date): US 2000175779 P 20000112; US 2000730969 A 20001206; US 2002109809 A 20020329

20031204 AU 200125758

20030501 WO 2000US33102

WO 2000US33102

JP 2001551524

CN 2000818360

US 2000175779 ·

US 2000730969

·US 2002109809

MX 20026841

ZA 20024972

20001206·

20001206

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20001206

20020711

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200357

200362

200368

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Abstract (Basic): WO 200151103 A1

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20030624

20030611

20030827

20031014

NOVELTY - Hydrophilic **coating** material for a surgical implant comprises hydrophobic (meth)acrylic polymer and hydrophilic polymer to reduce or eliminate edge glare when the material is hydrated. It has a glass transition temperature (Tg) of less than 37degreesC when hydrated.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of reducing edge glare—in an implantable ophthalmic—lens, which includes—applying the inventive coating material to an optic edge surface of the lens.

USE - For reducing edge glare of surgical implants, particularly implantable ophthalmic lens (claimed).

ADVANTAGE - The inventive coating material is hazy or opaque when hydrated, and reduces or eliminates edge glare in ophthalmic lenses. It can be easily removed by a variety of solvents or solvent mixtures, including the same solvent used as the base in the preparation of the coating solution.

pp; 17 DwgNo 0/0

Technology Focus:

JP 2003519538

ZA 200204972-

MX 2002006841 A1

CN 1423570

US 6632887

AU 768090

TECHNOLOGY FOCUS - POLYMERS - Preferred Polymers: The hydrophilic polymer includes polyhydroxyethyl methacrylate, polyacrylamide, polyglyceryl methacrylate, or preferably polyvinyl pyrrolidone (PVP).

The hydrophobic (meth) acrylic polymer comprises a monomer of formula (I). The hydrophobic (meth)acrylic polymer may be 2-phenylethyl acrylate (2-PEA) or 2-phenylethyl methacrylate (2-PEMA). It optionally comprises at least one ingredient from ultraviolet (UV) absorbers, blue-light blocking colorants, and chain transfer agents.

Preferred Properties: The hydrophilic polymer has a weight average molecular weight of 2500-100000. The polyvinyl pyrrolidone has a weight average molecular weight of 10000.

Preferred Composition: The amount of the hydrophilic polymer in the coating material is 5-50 preferably 15-30 wt.%. The coating material has hydrated water content of 20-70%.

X=H or CH3;

m=0-6;

Y=bond, O, S or NR;

R=H, CH3, CnH2n + 1, iso-OC3H7, C6H5, or CH2C6H5;

Ar=aromatic ring, optionally substituted with CH3, C2H5, n-C3H7, iso-C3H7, OCH3, C6H11, C1, Br, C6H5, or CH2C6H5

Extension Abstract:

EXAMPLE - A copolymer of 2-PEMA (1.5 parts by weight, pbw) and 2-PEA (3.24 pbw) was prepared and cured in propylene slab molds by exposure to blue light for 1 hour. The polymer (0.8345 g) was extracted in methanol at room temperature overnight and then air dried but not stripped of methanol solvent. Once dry, the slabs were dissolved in 2-pentanone and methanol to form a coating solution. A copolymer comprising 2-PEA (65%), 2-PEMA (30%), Tinuvin P (RTM: o-methallyl (1.8%) and 1,4-butanediol diacrylate (3.2%) was separately prepared, cured, extracted in acetone, dried for 2 hours and then dried at 100degreesC for 2 hours. ACRYSOF implantable ophthalmic lens' (IOL's) were also prepared. The slabs and IOLs were dipped in the solution, air dried for 5-10 minutes, and baked at 90 degreesC for 20-90 minutes. The cured coating was clear. After hydrating the coating, it was translucent/opaque and 0.5-1 mum thick. After remaining hydrated for 9 months, the coating's haze and opacity did not diminish and remained attached to the substrate slab or FOL.

Title Terms: HYDROPHILIC; COATING; MATERIAL; SURGICAL; IMPLANT; COMPRISE; HYDROPHOBIC; METHO; ACRYLIC; POLYMER; HYDROPHILIC; POLYMER Derwent Class: A14; A92; D22; G02; P32; P34; P42; P81 International Patent Class (Main): A61L-000/00; A61L-027/00; A61L-027/34;

B05D-005/06; C09D-133/08; G02C-007/10

International Patent Class (Additional): A61F-002/14; A61F-002/16; C09D-133/06; C09D-133/10; G02C-007/02

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A04-F01A; A09-A08; A12-V02A; D09-C01; D09-C01A; G02-A05

2/9/20 (Item 20 from file: 350)
DIALOG(R) File 350: Derwent WPIX

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004332414

WPI Acc No: 1985-159292/198526

XRAM Acc No: C85-069717 XRPX Acc No: N85-120103

Optical element with phototropic lacquer **coating** - useful e.g. on sun-glass **lens** and has easy application good adhesion and long effect

Patent Assignee: MELZIG M (MELZ-I); OPTISCHE WERKE RODENSTOCK KG G (RODN

Inventor: EFFER E; MARTINUZZI G

Number of Countries: 014 Number of Patents: 010

Patent Family:

			-					•				
	Pat	tent No		Kind	Date	App	plicat No		Kind	Date	Week	
_	_WO_	-8502687		A	19850620	WO	84DE276		Α	19841217	198526	В
	EΡ	146136	٠	A	19850626	EΡ	84115603		Α	19841217	198526	
	DE	3345639	÷,	Α	19850704	DE	3345639		A·	19831216	198528	
	ΑÜ	8537861 ,		A	19850626			•	4	-	198536	
	EΡ	165270		A	19851227	ΕP	85900064		Α	19841217	198601	
	JP	61501171		W	19860612	JP	85500239	•	Α	19841217	198630	
	DΕ	3345639		C .	19880915				•	$(x_1, \dots, x_n) \in \mathbb{R}^n$	198837	1
4	ΕP	146136		В	19900516					*	199020	10
,	DE	3482286		' G .	19900621	•					199026	
•	JP	95036064		B2	19950419	WO	84DE276		А	19841217	199520	
						JP	85500239	. 00	Α	19841217		

Priority Applications (No Type Date): DE 3345639 A 19831216 Abstract (Basic): WO 8502687 A

Optical element has a phototropic **coating**, consisting of a lacquer contg. phototropic substance(s)(I)

Pref. the colours of the individual (I) can be different and the coating may also contain other nonphototropic colorants, opt. of different colours. The element pref. is a laminated glass with layers coloured with different phototropic or nonphototropic colorants, in which the colours are partly sepd. and esp. gradually intermingle.

Pref. the lacquer is a protective lacquer based on polysiloxane, esp. epoxy-, acryloyl- or (alkyl)alkoxy-silanes, a copolymer of polyfunctional acrylates and N-vinyl-lactams or an epoxide or polyurethane lacquer. (I) can be added to the lacquer in soln. and/or after (partial) cure. The (protective) lacquer also contains stabilisers, e.g. UV absorber, singlet oxygen eradicators etc., which prevent or inhibit photolytic and/or photooxidative decomposition of (I).

USE/ADVANTAGE - The **coating** is useful e.g. on sun glass **lenses**. It can be applied easily,adheres well and does not impair the optical quality of the element. The phototropic effect often lasts longer is (I) are applied in a lacquer rather than incorporated in the plastics material of the element.

Abstract (Equivalent): EP 146136.B

Optical element with a translucent coating containing one or more photochromic, organic substance(s), characterised by the fact that the coating comprises a polysiloxane protective lacquer. (6pp)

Title Terms: OPTICAL; ELEMENT; PHOTOTROPIC; LACQUER; COATING; USEFUL;

(Item 2 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv.

015284050 **Image available** WPI Acc No: 2003-344983/200333 XRAM Acc No: C03-090681

XRPX Acc No: N03-275973 Elimination_of_concentric myopic iridescence in optical lenses, by coating lens edges with acrylic paint after grinding

Patent-Assignee: BATAILLARD O (BATA-I)

Inventor: BATAILLARD O

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent-No Kind Date Applicat No Kind FR 2828564 A1 20030214 FR 200110623 20010808 200333

Priority Applications (No Type Date): FR 200110623 A 20010808 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes FR 2828564 7 G02C-007/16

Abstract (Basic): FR 2828564 A1

A1 ·

NOVELTY - Elimination of concentric myopic iridescence in optical lenses, by coating lens edges with acrylic paint after grinding.

DETAILED DESCRIPTION - The procedure for eliminating concentric myopic iridescence in optical lenses (2) consists of coating the lens edges (4) after grinding with an opaque two-component acrylic paint (5) in a colour to match the main colour of the frame (1). The ground and cleaned lenses have their faces covered with adhesive masking tape, leaving only the edges exposed, and the paint is applied with a spray gun in three coats and left to dry for 12 hours before removing the tape.

USE - Eliminating internal reflections in optical lenses, principally for correcting myopia.

ADVANTAGE - The procedure can be applied to all types of lenses except those uses in rimless spectacles.

 ${\tt DESCRIPTION\ OF\ DRAWING(S)\ -\ The\ drawing\ shows\ a\ perspective\ views}$ of lenses before and after the treatment.

Frame (1) Lens (2) Lens edge (4) Paint (5)

pp; 7 DwgNo 1/1

Technology Focus:

TECHNOLOGY FOCUS - POLYMERS - Preferred Components: The lenses can be e.g. of polycarbonate; the acrylic paint consists of a resin and hardener.

10/9/14 (Item 14 from file: 350) DIALOG(R) File 350: Derwent WPIX-(c) 2004 Thomson Derwent. All rts. reserv.

002539261

WPI Acc No: 1980-57287C/198033-

Apparatus for colouring peripheral edges of lenses -

supporting lenses on rotating shafts in basket while immersed in dye bath

Patent Assignee: GROGNALE S (CROG-I)

Inventor: GROGNALE S

Number of Countries: 010 Number of Patents: 002

· Patent Family:

Patent_No-Kind Date Applicat No Kind Date Week EP 13867 Α 19800806 198033 IT 1117396 В 198726

19860217

Priority Applications (No Type Date): IT 7949717 A 19790710; IT 7836255 A 19781128

Cited Patents: CH 292881; FR 1176733; FR 1383104; FR 1592695; GB 423338; GB 423457; US 3494326; US 4096295; US 4101302

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes .

EP 13867 A E

Designated States (Regional): AT BE CH DE FR GB LU NL SE

Abstract (Basic): EP 13867 A

Apparatus for colouring the peripheral regions of spectacle lenses comprises a basket with longitudinal shafts rotatable at adjustable speeds located near the bottom of the basket. Pairs of adjacent shafts are spaced apart less than the diameter of the lenses which are supported vertically in annular grooves in the shafts. The basket is raised and lowered vertically relative to a dye bath so that the rotating lenses are immersed to a predetermined depth in a heated and stirred dye bath to dye the peripheral edges.

In the production of two colour lenses for spectacles or sunglasses.

High output of coloured lenses with controlled colour variation from the periphery to the centre.

10/9/18 (Item 2 from file: 347) DIALOG(R) File 347: JAPIO ---(c) 2004 JPO & JAPIO. All rts. reserv.

04474451 **Image_available** SPECTACLE LENS AND ITS MANUFACTURE

06-118351 [JP 6]18351 A] April 28, 1994 (19940428) PUBLISHED:

INVENTOR (s): INOUE SHINOBU

APPLICANT(s): SEIKO EPSON CORP [000236] (A Japanese Company or Corporation)

, JP (Japan)

04-267615 [JP 92267615] October 06, 1992 (19921006) APPL. NO.: FILED:

INTL CLASS: [5] G02C-007/02

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JOURNAL: Section: P, Section Number 1777, Volume 18, Number 402, Pg. 62, July

27, 1994 (19940727)

ABSTRACT

PURPOSE: To manufacture a rimless frame so that it seems to have a rim, and to improve the fashionability by performing coloring to the end face of the outside periphery of a spectacle lens subjected to cutting to a desired spherical shape.

CONSTITUTION: An undyeable spectacle lens 1 to which a reflection preventive film is subjected to vapor deposition is cut to a desired spherical shape, and grooved, and thereafter, coloring is performed to the part of a groove 2 of the end face of the outside periphery by dyeing. Or a spectacle lens 5 is subjected to cutting to a desired spherical shape, grooving is performed to the end face of the outside periphery, and thereafter, after a sheet 6 made of a resin is stuck, coloring is performed. By sticking the sheet 6 to the part of the groove 2 of the end face of the outside periphery of the spectacle lenses 1, 5 installed in a rimless frame, or the groove of the end-face_of the

outside periphery and performing coloring, the outside peripheral part of the lens is colored, and the rimless frame seems as if it has a rim. It is also desirable that a dyeable spectacle lens is subjected to cutting to a spherical shape, and thereafter, the end face of the outside periphery is colored by dyeing without executing masking.

13/9/15 (Item 15 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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007658480

WPI Acc No: 1988-292412/198841 Related WPI Acc No: 1987-198648 XRAM Acc No: C88-129643

Mfg. intraocular lens with coloured peripheral region -

by forming coloured layer on cylinder then hot drawing and cutting

Patent Assignee: GRENDAHL D T (GREN-I)

Inventor: LEMASTER W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 4774036 A 19880927 US 8741235 A 19870422 198841 B

Priority Applications (No Type Date): US 8741235 A 19870422; US 85761408 A 19850801

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 4774036 A 8

Abstract (Basic): US 4774036 A

Lens with clear central region and peripheral region with transmissivity decreasing to a min. at the outer edge is made by forming a cylinder of larger dia. than the finished lens, forming a coloured layer of the cylinder surface, heating and drawing the cylinder to appropriate dia. to give the graded transmissivity, with the degree depending on the amount of drawing, and lathe cutting to form the lens.

Colouring may be by dyeing the surface or by extruding a layer of coloured material onto the cylinder surface. The lens pref. has positioning loops attached to its periphery, and the loops aer made during the lathe cutting steps. The lens is e.g. of polymethylmethacrylate or polysulphone, and the colour is pref. blue.

ADVANTAGE - Method provides a **coloured rim** to minimise, glare and distracting reflections caused by the edge effect and light transmitted form the loops.

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Title Terms: MANUFACTURE; INTRA; OCULAR; LENS; COLOUR; PERIPHERAL; REGION;

13/9/16 (Item 16 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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007109835

WPI Acc No: 1987-109832/198716

XRAM Acc No: C87-045628 XRPX Acc No: N87-082666

Intra-ocular lens with curved positioners - made of specified plastic with coloured rim for protection against glare and diffused

light

Patent Assignee: STORZ INST CO (STOR-N)

Inventor: LYNCH J R; VOROSMARTH L Z; WILSON J R

Number of Countries: 005 Number of Patents: 005

Patent Family:

Patent_No	Kind	Date ·	Applicat No	Kind	Date	Week	
DE 3635111	A.	19870416	DE 3635111	Α	19861015		В
GB 2181355 🥰					19861006		-
FR 2589352 💄	Α	19870507	FR 8614249	Α	19861014	198724	
	A	19870714	V 1			198733	
IT 1197356	В	19881130	•	•	•	199112	

Priority Applications (No Type Date): US 85787495 A 19851015 Abstract (Basic): DE 3635111 A

An intraocular implant made pref. of polymethyl methacrylate, or polypropylene or silicone, consists of the clear optical lens part and a peripheral part. The latter is pref. coloured blue. The curved positioning elements (48,50) can be made integral with the lens, of the same material, and coloured like the peripheral part.

ADVANTAGE - This prevents diffused light or glare to be produced by the rim of the lens.

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Title Terms: INTRA-OCULAR; LENS; CURVE; POSITION; MADE; SPECIFIED; PLASTIC; COLOUR; RIM; PROTECT; GLARE; DIFFUSION; LIGHT Index Terms/Additional Words: PMMA; POLY; METHYL; POLYMETHACRYLATE;